

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2014 Levee Inspection Results****Reclamation District No. 2091 Chase**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Right	7.59
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/15/2014 - 04/15/2014			
DWR Inspector	Richard Willoughby			
Accompanied By	Mike Alves RD 2091			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.00	Rating **	A	Issue No.	2
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals				°
					°
DWR ID	DWR_RD2091_01_s _ 2013_2				
Action/Comments					

No Photos

LM Start	0.00	Rating **	A	Issue No.	4
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment				°
					°
DWR ID	DWR_RD2091_01_s _ 2013_4				
Action/Comments					

No Photos

LM Start	0.00	Rating **	A	Issue No.	5
LM End	0.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD2091_01_s_2013_5				
Action/Comments					

No Photos

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.07	Rating **	M	Issue No.	6
LM End	0.07	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541970 °	37.541970 °
				-121.093980 °	-121.093980 °
DWR ID	DWR_RD2091_01_s_2014_6				
Action/Comments					
Inspector Comments: FS_ID:22546					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 7.2 feet below crown. Slide gate in 36-inch corrugated metal pipe riser on the waterward slope. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 906+85.					
FS Date: 10/15/2013 10:53:29 AM					

Photo 1 of 1 : UCIP_2988.jpg



Slide gate in 36-inch CMP riser on WS toe.

LM Start	0.09	Rating **	M	Issue No.	7
LM End	0.09	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.542030 °	37.542030 °
				-121.094370 °	-121.094370 °
DWR ID	DWR_RD2091_01_s_2014_7				
Action/Comments					
Inspector Comments: FS_ID:22555					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Pipe open on WS and slide gate has been removed.					
Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee					
9.0 feet below crown. Slide gate in corrugated metal pipe riser on the					
waterward slope. Originally included in the 1961 O&M manual. As built					
drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 907+55.					
FS Date: 10/15/2013					

Photo 1 of 1 : UCIP_2990.jpg



36-inch CMP riser on WS slope.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.10	Rating **	M	Issue No.	14
LM End	7.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.542012 °	37.479269 °
				-121.094524 °	-121.044715 °
DWR ID	DWR_RD2091_01_s _ 2014_14				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : richard_s_20140417_536.jpg



Looking south at typical view of landward slope.

LM Start	0.10	Rating **	M	Issue No.	15
LM End	7.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.542010 °	37.479269 °
				-121.094526 °	-121.044714 °
DWR ID	DWR_RD2091_01_s _ 2014_15				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

Photo 1 of 1 : richard_s_20140417_537.jpg



Looking south at typical view of waterward slope.

*** Location**
LS : Land Side
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	9
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541564 °	37.541564 °
				-121.096792 °	-121.096792 °
DWR ID	DWR_RD2091_01_s_2014_9				
Action/Comments					
Inspector Comments: FS_ID:22585					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Flap gate has fallen off at WS toe. Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 10.0 feet below crown. Flap gate on the waterward end. Drain opening 15 feet off landward toe. Originally included in the 1961 O&M manual. As built drawings available, Drawing # 07-04-1555: 1555/17 & 1555/55, 915+00.					
FS Date: 10/15/2013					

Photo 1 of 1 : UCIP_2993.jpg



Pipe visible in canal on WS toe.

LM Start	0.64	Rating **	M	Issue No.	10
LM End	0.64	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.541220 °	37.541220 °
				-121.103880 °	-121.103880 °
DWR ID	DWR_RD2091_01_s_2014_10				
Action/Comments					
Inspector Comments: FS_ID:22601					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 24-inch corrugated metal pipe through levee 12.0 feet below crown. Flap gate on the waterward end. Concrete headwall on WS toe. Originally included in the 1961 O&M manual.					
FS Date: 10/15/2013					

Photo 1 of 1 : UCIP_2994.jpg



24-inch CMP on concrete headwall with flapgate on WS toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	2.23	Rating **	A/W	Issue No.	54
LM End	2.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control				°
					°
DWR ID	DWR_RD2091_01_s _ 2012_54				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.44	Rating **	M	Issue No.	11
LM End	2.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.522130 °	37.522130 °
				-121.095630 °	-121.095630 °
DWR ID	DWR_RD2091_01_s _ 2014_11				
Action/Comments					
Inspector Comments: FS_ID:22634					
EP_NO: 5560					
Repair Type:					
Crossing Status:					
UCIP Comments: Siphon breaker missing parts and pipe open at 24-inch riser on WS shoulder.					
FIELD_STRUCT_DESC: 2 of 3: 36-inch pipe through levee 3.0-feet below crown. Siphon breaker in 24-inch CMP riser on the waterward shoulder. Butterfly valve next to pump off LS toe. Concrete "U"-shaped headwall off the WS toe (Permit No 5560, 1969). Check about missing parts					
FS Date: 10/15/2013					

Photo 1 of 1 : UCIP_3002.jpg



Pipe, pump, and butterfly valve off LS toe.

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	2.44	Rating **	M	Issue No.	12
LM End	2.44	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.522108 °	37.522108 °
				-121.095591 °	-121.095591 °
DWR ID	DWR_RD2091_01_s _ 2014_12				
Action/Comments					
Inspector Comments: FS_ID:22635					
EP_NO: 5560					
Repair Type:					
Crossing Status:					
UCIP Comments: Siphon breaker missing components at CMP riser on WS shoulder.					
FIELD_STRUCT_DESC: 3 of 3: 36-inch pipe through levee 3.0-feet below crown. Siphon breakers in 24-inch CMP riser on the waterward shoulder. Pump and butterfly valve off LS toe. Concrete "U" headwall on the waterward slope (Permit No 5560, 1969). Design drawings available in permit.					
FS Date: 10/15/2013					

No Photos

LM Start	4.20	Rating **	A/W	Issue No.	1
LM End	4.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.503555 °	37.503555 °
				-121.081932 °	-121.081932 °
DWR ID	DWR_RD2091_01_s _ 2012_1				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location
LS : Land Side
WS : Water Side
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** Rating
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A/W : Acceptable but Monitor & Maintain

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	4.67	Rating **	M	Issue No.	13
LM End	4.67	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.497390 °	37.497390 °
				-121.080370 °	-121.080370 °
DWR ID	DWR_RD2091_01_s _ 2014_13				
Action/Comments					
Inspector Comments: FS_ID:22639					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Appears abandoned and if so should be done so properly.					
FIELD_STRUCT_DESC: 36-inch corrugated metal pipe through levee 15.0 feet below crown. Abandoned concrete inlet box on the waterward slope of levee. 6'X5' Concrete distribution box at the landward toe. Originally included in the 1961 O&M manual.					
FS Date: 10/15/2013					

Photo 1 of 1 : UCIP_3013.jpg



Distribution box on LS toe.

LM Start	7.55	Rating **	U	Issue No.	8
LM End	7.55	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				o
					o
DWR ID	DWR_RD2091_01_f _ 2013_8				
Action/Comments					
Ditch					
Inspector Comments: Ditch has been in place for several years. Ditch is 10' to 15' from the landward toe and is 15" to 20' deep.					

Photo 1 of 2 : richard_s_20140320_433.jpg



Looking southeast at drainage ditch at landward toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	7.55	Rating **	U	Issue No.	8 (cont)	
LM End	7.55	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments				°	°
					°	
DWR ID	DWR_RD2091_01_f_2013_8					
Action/Comments						
Ditch						
Inspector Comments: Ditch has been in place for several years. Ditch is 10' to 15' from the landward toe and is 15" to 20' deep.						

Photo 2 of 2 : richard_s_20140320_434.jpg



Looking east at drainage ditch at landward toe.

LM Start	7.55	Rating **	A/W	Issue No.	3
LM End	7.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.479203 °	37.479203 °
				-121.044695 °	-121.044695 °
DWR ID	DWR_RD2091_01_s_2012_3				
Action/Comments					
Repair slope instability. Inspector Comments: Slide appears to be 100' + feet long on landside slope. Cracks are approx. 4-9" wide and 12-18" deep. Slide extends from the middle of the landside slope to landside toe. District indicated that the landowner repaired erosion/slip with no supervisor from LMA or State. No compaction results was provided. Site does appear to be stable at time of inspection, but should be monitored by LMA.					

Photo 1 of 8 : richard_s_20140320_425.jpg



Looking south at slide on landside slope next to irrigation ditch.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)
LM End	7.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.479203 °	37.479203 °
				-121.044695 °	-121.044695 °
DWR ID	DWR_RD2091_01_s _ 2012_3				
Action/Comments					
Repair slope instability. Inspector Comments: Slide appears to be 100' + feet long on landside slope. Cracks are approx. 4-9" wide and 12-18" deep. Slide extends from the middle of the landside slope to landside toe. District indicated that the landowner repaired erosion/slip with no supervisor from LMA or State. No compaction results was provided. Site does appear to be stable at time of inspection, but should be monitored by LMA.					

Photo 2 of 8 : richard_s_20140320_426.jpg



Looking southwest a slide on landside slope.

Photo 3 of 8 : richard_s_20140320_427.jpg



Looking at south end of slide.

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)
LM End	7.55	Issue Type +	Ma	Location *	LS

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)	
LM End	7.55	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.479203 °	37.479203 °	
				-121.044695 °	-121.044695 °	
DWR ID	DWR_RD2091_01_s _ 2012_3					
Action/Comments						
Repair slope instability.						

Photo 4 of 8 : richard_s_20140320_428.jpg



Looking at north end of slide next to irrigation ditch.

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)
LM End	7.55	Issue Type +	Ma	Location *	LS

Photo 5 of 8 : richard_s_20140320_429.jpg



Looking south at irrigation ditch at landside toe.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)
LM End	7.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.479203 °	37.479203 °
				-121.044695 °	-121.044695 °
DWR ID	DWR_RD2091_01_s _ 2012_3				
Action/Comments					
Repair slope instability.					

Photo 6 of 8 : richard_s_20140320_430.jpg



Looking south at repaired erosion/slip on landside slope.

Photo 7 of 8 : richard_s_20140320_431.jpg



Looking southeast at repaired erosion/slip on landside slope next to irrigation canal.

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)
LM End	7.55	Issue Type +	Ma	Location *	LS

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.59	04/15/2014 04/15/2014	Richard Willoughby

LM Start	7.55	Rating **	A/W	Issue No.	3 (cont)
LM End	7.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.479203 °	37.479203 °
				-121.044695 °	-121.044695 °
DWR ID	DWR_RD2091_01_s _ 2012_3				
Action/Comments					
Repair slope instability.					

Photo 8 of 8 : richard_s_20140320_432.jpg



Looking north at repaired erosion/slip on landside slope next to irrigation canal.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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M : Minimally Acceptable
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A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 2091 Chase

Waterway			Bank	Unit Miles
Unit No. 02 San Joaquin River				0.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/15/2014 - 04/15/2014			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

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DWR must be informed on the:

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**Flood Control Project Maintenance
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Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	13
LM End	0.14	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.483057 °	37.483805 °
				-121.050573 °	-121.049874 °
DWR ID	DWR_RD2091_02_s _ 2014_13				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Control vegetation on levee crown					

No Photos

LM Start	0.02	Rating **	M	Issue No.	11
LM End	0.32	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482412 °	37.485543 °
				-121.051283 °	-121.049296 °
DWR ID	DWR_RD2091_02_s _ 2014_11				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

LM Start	0.02	Rating **	M	Issue No.	10
LM End	0.32	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482413 °	37.485543 °
				-121.051283 °	-121.049296 °
DWR ID	DWR_RD2091_02_s _ 2014_10				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements.					

No Photos

* Location LS : Land Side WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.02	Rating **	M	Issue No.	9
LM End	0.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.482450 °	37.482450 °
				-121.051220 °	-121.051220 °
DWR ID	DWR_RD2091_02_s_2014_9				
Action/Comments					
Inspector Comments: FS_ID:22641					
EP_NO: N/A					
Repair Type:					
Crossing Status:					
UCIP Comments: Flap gate rusted in-place and does not function. In closed position.					
FIELD_STRUCT_DESC: 24-inch corrugated metal drain pipe through levee 16.4-feet below the crown. Flap gate on the waterward toe.					
FS Date: 10/15/2013					

Photo 1 of 1 : UCIP_3015.jpg



24-inch CMP with flapgate visible on WS toe.

LM Start	0.03	Rating **	A/W	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.482523 °	37.482523 °
				-121.051103 °	-121.051103 °
DWR ID	DWR_RD2091_02_s_2012_1				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : richard_s_20140417_539.jpg



Looking east at untrimmed tree on waterward slope.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.06	Rating **	M	Issue No.	2
LM End	0.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.482815 °	37.483306 °
				-121.050849 °	-121.050302 °
DWR ID	DWR_RD2091_02_f_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : richard_s_20140417_538.jpg



Looking east at vegetation on waterward slope.

LM Start	0.06	Rating **	M	Issue No.	12
LM End	0.06	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.482844 °	37.482844 °
				-121.050816 °	-121.050816 °
DWR ID	DWR_RD2091_02_s_2014_12				
Action/Comments					
Retaining Wall					
Inspector Comments: Abandoned concrete foundation on landward toe.					

Photo 1 of 1 : richard_s_20140417_540.jpg



Looking west at concrete foundation/retaining wall at landward toe.

LM Start	0.18	Rating **	M	Issue No.	3
LM End	0.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.484342 °	37.484342 °
				-121.049848 °	-121.049848 °
DWR ID	DWR_RD2091_02_f_2012_3				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : richard_s_20140320_446.jpg



Looking southeast at the end of the project levee.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.20	Rating **	M	Issue No.	6		
LM End	0.20	Issue Type +	En	Location *	LS		
Category	Earthen Levee			GPS Latitude/Longitude			
				Start		End	
Item	Encroachments				°		°
					°		°
DWR ID	DWR_RD2091_02_f_2013_6						
Action/Comments							
Retaining Wall							
Inspector Comments: Retaining walls has been in place for several years.							

Photo 1 of 2 : richard_s_20140320_449.jpg



Looking east at retaining walls on landward toe.

LM Start	0.20	Rating **	M	Issue No.	6 (cont)
LM End	0.20	Issue Type +	En	Location *	LS

Photo 2 of 2 : richard_s_20140320_450.jpg



Looking northeast at retaining walls within the City of Modesto shooting range on landward slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.22	Rating **	M	Issue No.	8
LM End	0.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				°
					°
DWR ID	DWR_RD2091_02_f_2013_8				
Action/Comments					
Equipment					

Photo 1 of 1 : richard_s_20140320_452.jpg



Looking northeast at storage containers and abandoned vehicle at landward toe.

LM Start	0.22	Rating **	M	Issue No.	14
LM End	0.28	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.484917 °	37.485418 °
				-121.050224 °	-121.049933 °
DWR ID	DWR_RD2091_02_s_2014_14				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.25	Rating **	M	Issue No.	7
LM End	0.25	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				°
					°
DWR ID	DWR_RD2091_02_f_2013_7				
Action/Comments					
Tank					
Inspector Comments: Water tank has been in place for several years.					

Photo 1 of 1 : richard_s_20140320_451.jpg



Looking west at water tank on landward shoulder.

*** Location**

LS : Land Side
WS : Water Side
CR : Crown

**** Rating**

A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 2091 Chase

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 San Joaquin River		0.33	04/15/2014 04/15/2014	Richard Willoughby

LM Start	0.29	Rating **	M	Issue No.	4
LM End	0.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.485447 °	37.485447 °
				-121.049750 °	-121.049750 °
DWR ID	DWR_RD2091_02_f_2012_4				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : richard_s_20140320_447.jpg



Looking east at trimmed trees on landside slope and toe.

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement